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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,624	10/27/2005	Ryouichi Koga	P28729	7272
52123 7590 94788/2010 GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE			EXAM	IINER
			YOUNKINS, KAREN L	
RESTON, VA	20191		ART UNIT	PAPER NUMBER
			3751	
			NOTIFICATION DATE	DELIVERY MODE
			04/28/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

Office Action Summary

Application No.	Applicant(s)			
10/554,624	KOGA ET AL.			
Examiner	Art Unit			
KAREN YOUNKINS	3751			

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address
Period for Renly

renou for Keply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET I WHICHEVER IS LONGERS, FROM THE MALLING DATE OF THE SHORT STATE OF THE STAT	HIS COMMUNICATION. ent, however, may a repty be timely filed all expire SIX (6) MONTHS from the mailing date of this communication. blication to become ABANDONED (35 U.S.C. § 133).				
Status					
1) Responsive to communication(s) filed on 22 February 10	<u>110</u> .				
2a) This action is FINAL. 2b) This action is r	non-final.				
3) Since this application is in condition for allowance except	for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Qu	uayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-46</u> is/are pending in the application.					
4a) Of the above claim(s) 23-46 is/are withdrawn from con	nsideration.				
5) Claim(s) is/are allowed.					
6)☐ Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-22 are subject to restriction and/or election red	quirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b	objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) I	be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is requir	red if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. No	ote the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority un	der 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
Certified copies of the priority documents have been received in Application No Copies of the entified copies of the priority documents have been received in this National Stage.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the cert	* "				
God the attached detailed office action for a list of the cert	med copies not received.				
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413) Paper No(s)/Mail Date				
Information Disclosure Statement(c) (FTO/SB/00)	5) Notice of Informal Patent Application				
Paper No(s)/Mail Date	6) Other:				

U.S. Patent and	Trademark Office
PTOL-326 (Rev. 08-06)

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DETAILED ACTION

Response to Amendment

 This action is responsive to the amendment and request for continued examination dated 2/22/2010. Responsive to the amendment, Claims 1-46 are currently pending, with claims 23-46 being withdrawn from consideration in a previous official action.

Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species I: nozzle device as depicted in figures 11-20

Species II: nozzle device as depicted in figures 22-28

Species III: nozzle device as depicted in figures 32-38

Species IV: nozzle device as depicted in figures 46

Species V: nozzle device as depicted in figures 49-51

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: claim 1.

The claims are deemed to correspond to the species listed above in the following manner:

Species I: Claims 1-10, 12-14, 17-22 Species II: Claims 1-2, 11-15

Species III: Claims 1-2, 11-13

Species IV: Claim 1 Species V: Claim 1

The following claim(s) are generic: Claim 1.

Further help from the applicant and applicant's representative as to how the claims correspond to the species above is requested. The corresponding claims listed above are **as best understood** by the examiner, however the specification and claims appear to be a direct translation to English from a foreign language resulting in some confusion.

3. REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

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The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
 - (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

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4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof.

Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case.

Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

 Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim 7 11 0 1111 0 7 0 1

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAREN YOUNKINS whose telephone number is (571)270-7417. The examiner can normally be reached on Monday through Friday 7:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Huson can be reached on (571)272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. Y./ Examiner, Art Unit 3751 /Gregory L. Huson/ Supervisory Patent Examiner, Art Unit 3751